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AUTHOR(S): Nair, M. G.; Boyce, Loretta H.; Berry, Michael
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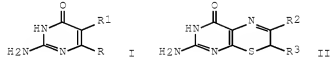

I II

AB Reaction of I (R = Cl, R1 = NO2) with Na2S gave I (R = SNa, R1 = NO2), which upon dithionite reduction gave I (R = SH, R1 = NH2), which on reaction with a variety of α-bromo ketones gave 7,8-dihydro-8-thiopterins II (R2 = Ph, 4-MeC6H4, 4-ClC6H4, MeOC6H4, phthalimidoalkyl; R3 = H, Me). II (R2 = Ph, R3 = Me) (III) was also prepared by reaction of I (R = SH, R1 = NO2) with PhCOCHMeBr and subsequent dithionite reduction These conversions established the structure of III and related compds. as written.

IT 77903-11-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cyclization of)

RN 77903-11-8 ZCAPLUS

CN 4(1H)-Pyrimidinone, 2-amino-6-[(1-methyl-2-oxo-2-phenylethyl)thio]-5-nitro- (CA INDEX NAME)